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Smart cards are the key for information technology applications such as banking, e-purse and many others. The expanding functionality of smart cards is not fully used by most of the applications, and the number of potential applications is increasing day by day. In some cases, the restricted computing resources of smart cards may result in

limitations. In this paper, potential limitations will be listed and possible solutions will be shown, namely:

• High-capacity cards.

• High-speed data exchange (USB/MMC/Bluetooth).

• Embedded power sources.

• On-board user interface.

• On-board biometrical sensor and user authentication.

• Real time.

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Abstract

The Ninja project seeks to enable the broad innovation of robust, scalable, distributed Internet services, and to permit the emerging class of extremely heterogeneous devices to seamlessly access these services. Our architecture consists of four basic elements: bases, which are powerful workstation cluster environments with a software platform that simplifies scalable service construction; units, which are the devices by which users access the services; active proxies, which are transformational elements that are used for unit- or service-specific adaptation; and paths, which are an abstraction through which units, services, and active proxies are composed.

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